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System and method to enable processor management policy in a multi-processor ...

MA Rothman, VJ Zimmer - US Patent App. 10/917,164, 2004 - Google Patents

... In this case, it may be desirable to **throttle** down the processor speed after 10 hours of 90% operation. ... The VMM 501 acts a proxy for **resource** access. ... 8. The system as recited in claim 1, wherein the **workload** profiler is an out of band **process**. ...

[All 2 versions](#)

[PDF] Oceano-SLA based management of a computing utility

K Appleby, S Fakhouri, L Fong, G Goldszmidt, M ... - Proceedings of the 7th ..., 2001 - Citeseer

... A fourth option is to **throttle** the incoming request stream to prevent Dolphin overload ... that the server becomes part of the customer domain (see Section 5). When the **Resource** Director decides ... The **process** of priming a server is then reduced to mapping one or more subtrees in a ...

Cited by 276 - [Related articles](#) - [View as HTML](#) - [All 10 versions](#)

... product for monitoring and controlling access to a computer system **resource**

DA Banning, JA Fromherz, JR McLaughlin, ... - US Patent App. 11/ ..., 2004 - Google Patents

... particularly in the case where the valid entity employs an automated script/**process** to, for ... defined, and when met, the facility selectively controls access to the computer system **resource**. ... a transactional environment (eg, CICS, Web- Sphere, etc.) could begin to **throttle** access by ...

[Related articles](#) - [All 4 versions](#)

... program execution phases to trade power and performance for media **workload**

S Banerjee, G Surendra, SK Nandy - Proceedings of the 2004 ..., 2004 - portal.acm.org

... We use **process** parameters for a .35 ϕ m **process** at 600MHz in all our simulations. ... high IPC state, assum- ing that following phases of execution will extract more ILP, and (ii) **throttle** at different ... Effective utilization of **resources** minimize the occupancy of instruction in the pipeline ...

Cited by 2 - [Related articles](#) - [All 5 versions](#)

Neptune: A dynamic **resource** allocation and planning system for a cluster ...

DP Pazei, T Ellam, LL Fong, M ... - ... of the 2nd IEEE/ ..., 2002 - doi.ieeecomputersociety.org

... **throttle**(num) Reservationbycapacity ... time difference between the receipt of a high-load **threshold** event and the completion of the relocation **process**. ... **resources** among a set of domains in response to **workload** changes taking into account complex **resource** interdependencies. ...

Cited by 16 - [Related articles](#) - [All 6 versions](#)

[CITATION] Determination of Load-Service Curves for Distributed Switching ...

A Jensen, VB Iversen - Teletraffic and Datatraffic in a Period of ..., 1991 - North-Holland

Cited by 5 - [Related articles](#) - [All 2 versions](#)

[PDF] **Resource** management in wide-area ATM networks using effective ...

G De Veciana, G Kesidis, J Walrand - IEEE Journal on Selected Areas in ..., 1995 - Citeseer

... The network uses this information to establish whether suicient spare **resources** are available to admit the call through a given route. ... linkwith capacity c cells, supporting a stationary and ergodic arrivalpacket stream A t . Let X be distributed as the buer's stationary **workload**. ...

Cited by 141 - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 11 versions](#)

[PDF] Autosec: An integrated middleware framework for dynamic service brokering

Q Han, N Venkatasubramanian - IEEE Distributed Systems Online, 2001 - ics.uci.edu

... We now describe the state transitions caused by the **throttle** based collection algorithm. ... the new estimation variance hasn't been significantly reduced, the **process** goes back ... the best combination of information collection policies (SS, SI, TR, MA) and **resource** provisioning policy ...

Cited by 50 - Related articles - View as HTML - All 4 versions

Resource policing to support fine-grain cycle stealing in networks of workstations

KD Ryu, JK Hollingsworth - ... on Parallel and ..., 2004 - doi.ieeecomputersociety.org

... presented a simple and portable mechanism that allows an operating system to **throttle** the rate at ... Our experiments demonstrated that we are able to enforce these **resource** limits on applications ... We used them to implement policies that protect a host **process's** access to network ...

Cited by 11 - Related articles - BL Direct - All 15 versions

P300 as a measure of workload during a simulated aircraft landing task

B Fowler - Human Factors: The Journal of the Human Factors ..., 1994 - ingentaconnect.com

... The **throttle** was set constant at 26% of maximum thrust so that close adherence to the flight path resulted in ... This result can be explained by the multiple-**resource** view put forth by Wickens (1984), who postulated that in addition to stages of information **process**-ing is a ...

Cited by 26 - Related articles - BL Direct - All 4 versions

Method and system for energy management via energy-aware process scheduling

E Van Hensbergen, R Rajamony, FL ... - US Patent App. 10/ ..., 2003 - Google Patents

... the associated application(s). Typically, the operating system or system processors will "**throttle**" performance ... to report **resource** requirements, which may be provided on a per-**process** basis ... energy used might be reduced (due to under- utilization of powered **resources**) or must ...

[BOOK] Workload transition: Implications for individual and team performance

BM Huey, CD Wickens - 1993 - books.google.com

... There are five general features of similarity in the team transition **process**: time, structure ... TEAM LEADERSHIP AND CREW COORDINATION Optimal team performance during a **workload** transition depends heavily on effective crew **resource** management—personnel ...

Cited by 102 - Related articles - All 4 versions

Self-tuned congestion control for multiprocessor networks

M Thottethodi, AR Lebeck, SS ... - ... of the 7th ..., 2001 - doi.ieeecomputersociety.org

... We compare this estimate to a **threshold** value to determine when to **throttle** packet injection. ... Since only one packet can use the **resource**, other packets must wait ... This **process** continues, waiting packets delay other packets producing a tree of waiting packets that fans out from the ...

Cited by 48 - Related articles - All 28 versions

ECOSystem: Managing energy as a first class operating system resource

H Zeng, CS Ellis, AR Lebeck, A Vahdat - ACM SIGPLAN Notices, 2002 - portal.acm.org

... be allocated to all the active tasks in the next time interval so as to **throttle** to some ... One recent development in the OS-directed management of the battery **resource** is the Smart Battery interface in ... mW ,,l[llllllllitHtl, **Process** 0 CPU I NIC **Process** 1 .\.-\ CPU **Process** :2 t ...

Cited by 218 - Related articles - BL Direct - All 34 versions

System and method for managing quality of service for a storage system

WJ Earl, D Ekambaram - US Patent App. 10/997,198, 2004 - Google Patents

... For a mixed **workload**, and especially when writes are mostly sequential, however, there is a level of write buffer- ing beyond which there is little to be gained ... Based on the **resource** usage comparisons, the QoS manager 112 may signal the QoS **throttle process** 120 to ...

All 6 versions

... of instruction scheduling through dynamic allocation of multiple datapath **resources**

D Ponomarev, G Kucuk, K Ghose - ... of the 34th annual ACM/IEEE ..., 2001 - portal.acm.org

... In [4], a dynamic thermal management scheme was investigated to **throttle** power dissipation in ... As we focus on dynamic **resource** allocation directly connected with the instruction scheduling logic ... An associative tag matching **process** is then used to steer the result to matching ...

Cited by 113 - Related articles - BL Direct - All 15 versions

[PDF] **Resource** Policing to Support Fine-Grain Cycle Stealing in Networks of ...

JK Hollingsworth - IEEE TRANSACTIONS ON PARALLEL AND ..., 2004 - dimap.ufrn.br

... 3) a new I/O scheduling mechanism called rate windows that **throttle** guest processes ... The dilation factor for each **process** is computed by counting file page cache faults,7 ... RYU AND HOLLINGSWORTH: **RESOURCE** POLICING TO SUPPORT FINE-GRAIN CYCLE STEALING ...

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Method and system for storage-aware flow **resource** management

CC Joseph Jr, P Sarkar, SM Uttamchandani, K ... - 2004 - freepatentsonline.com

... The method in claim 24, wherein said method further comprises repeating **process** acquires and ... to increase until all the **resources** are completely exhausted and then **throttle** back the ... 208 to prevent window size increments when the client does not utilize the **resources** which it ...

[PDF] Teletraffic and datatraffic

A Jensen, VB Iversen, MK ... - ... in a period of change: ITC ..., 1991 - people.csail.mit.edu

... controls is for a star topology, distributed switching system where the limiting **resource** for call ... of the predicted blocking with the ideal block- ing shows that the **throttle** performs quite ... the Busy Hour Suppose calls arrive during the busy hour as a non- stationary Poisson **process**. ...

[Related articles](#) - All 3 versions

Efficient network and I/O throttling for fine-grain cycle stealing

KD Ryu, JK Hollingsworth, PJ Keleher - Proceedings of the 2001 ..., 2001 - portal.acm.org

... Note that the version with I/O throttling is less thrifty with **resources** (the guest job finish later). ... Our third set of micro-benchmark experiments is designed to look at the distribution of sleep times for a guest **process**. ... Third, we ran a compile **workload** that consisted of compiling a ...

Cited by 18 - Related articles - All 15 versions

Capriccio: scalable threads for internet services

R Von Behren, J Condit, F Zhou, GC ... - ACM SIGOPS ..., 2003 - portal.acm.org

... Categories and Subject Descriptors D.4.1 [Operating Systems]: **Process** Management—threads General Terms Algorithms, Design, Performance Keywords user-level threads, linked stack management, dynamic stack growth, **resource**-aware scheduling, blocking graph ...

Cited by 155 - Related articles - BL Direct - All 69 versions

System and method for accessing **resources** in a database

DJ Evans, MS Godinez, JS Limoges - US Patent App. 10/425,750, 2003 - Google Patents

... The **resource** processor functionality of application server 12 comprises a request processor 20 that is adapted to **process** requests from ... The request processor 20 therefore may, depending upon certain criteria, **throttle** or accelerate the rate at which the operations are sent to ...

[Related articles](#) - All 4 versions

[PDF] Currentcy: Unifying policies for **resource** management

H Zeng, CS Ellis, AR Lebeck, A Vahdat - USENIX 2003 Annual Technical ..., 2003 - Citeseer

... The next **process** to be selected is one whose **resource** container has the lowest amount ... To ensure that a **process** that is intermittently ready and blocked has sufficient opportunities to ... We use several applications (described in Table 1) to create typical **workload** scenarios for a ...

Cited by 38 - Related articles - View as HTML - All 4 versions

[PDF] Quality of service enforcement for distributed objects

A Avritzer, EJ Weyuker - IEE Proceedings-Software, 1999 - path.berkeley.edu

... there are limited numbers of clients, permitting the architect to use an interactive **process** to study ...
 v, Nip Wu): Assume client i , submitting a request of type x , has a **resource** agreement of V ... if
 $W_i x > N_i X$ AND $\text{BOUND}(S, S', x)$ **throttle** the client The STRONG_FAIR algorithm stresses ...

Cited by 3 - Related articles - BL Direct - All 6 versions

[PDF] Rate Windows for Efficient Network and I/O Throttling

KD Ryu, JK Hollingsworth, PJ Keleher - University of Maryland UMIACS- ..., 2000 - Citeseer

... Note that the version with I/O throttling is less thrifty with **resources** (the jobs finish later ... set of
 micro-benchmark experiments is designed to look at the distribution of sleep times for a guest
process. ... Figure 8a), and the 5-second **threshold** is used only for toggling the "throttle" bit for ...

Related articles - View as HTML - All 4 versions

[PDF] Mitigating distributed denial of service attacks with dynamic resource pricing

D Mankins, R Krishnan, C Boyd, J Zao, M Frentz... - 2001 - Citeseer

... This will **throttle** the machines used in the attack, thereby forcing the attacker ... behavior, how to
 integrate pricing mechanisms with OS and network **resource** management mechanisms. ... respect
 to coordination with external servers, however the validation **process** typically requires ...

Cited by 39 - Related articles - View as HTML - All 20 versions

Thermal modeling, characterization and management of on-chip networks

L Shang, LS Peh, A Kumar, NK Jha - ... of the 37th annual IEEE/ACM ..., 2004 - portal.acm.org

... Characterization of the relative thermal impact of computation and communication **resources**
 in Raw. ... On the other hand, the SPEC and Mediabench benchmarks result in low power and
 thermal impact on both networks and processors due to underutilized on-chip **resources**. ...

Cited by 60 - Related articles - All 21 versions

[PDF] Session-based overload control in qos-aware web servers

H Chen, P Mohapatra - IEEE INFOCOM, 2002 - Citeseer

... For checkout queues, the **process** is SSL-secured and thus is very CPU intensive. ... Figure 4
 presents the nature of the **workload** composition during the period 20:00- ... The following analysis
 focuses on the worst case where requests compete for CPU **resources**. ...

Cited by 113 - Related articles - View as HTML - BL Direct - All 10 versions

[PDF] OS/390 Workload Manager Implementation and Exploitation

D Clitherow, S Herzog, A Salla, V Sokal, J ... - International Business ..., 1999 - Citeseer

... Compatibility Mode Here we list some of the issues associated with **workload** management when ...
 time as described in SLAs, into the technical terms of System **Resource** Manager (SRM ... This
 translation **process** requires highly skilled staff, and can be protracted, error-prone, and ...

Cited by 2 - Related articles - View as HTML - All 3 versions

[PS] Data streaming in computer networking

C Estan, G Varghese - ... on Management and Processing of Data ..., 2003 - research.att.com

... This **process** is governed by the scheduling algorithm that runs locally on the router and tries
 to ensure goals such as fair sharing of the ... Once routers detect these attacks they can **throttle** them
 [12]. ... Automati- cally inferring patterns of **resource** consumption in network traf- fic. ...

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